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1. 100% **GAINS instrumentation**

R. Anderson (Basic Automation, Boulder, CO), C. Girz, A. MacDonald (NOAA, Forecast Lab., Boulder, CO), and T. Lachenmeier (Global Solutions for Science and Learning, Inc OR)

AIAA-1999-3869

AIAA International Balloon Technology Conference, Norfolk, VA, June 28-July 1, 1999, C Technical Papers (A99-33301 08-01)

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Search Results - Record(s) 1 through 4 of 4 returned.

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☐ 1. Document ID: US 6433736 B1

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L33: Entry 1 of 4

File: DWPI

Aug 13, 2002

DERWENT-ACC-NO: 2003-056596

DERWENT-WEEK: 200305

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Self scan radio frequency tracking antenna apparatus mounted on mobile platform e.g. marine vessel, has attitude heading reference system which is mechanically connected to directional antenna

INVENTOR: BOWEN, D G; OWNBY, M L ; TIMOTHY, L K

PRIORITY-DATA: 2000US-0718680 (November 22, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6433736 B1</u>	August 13, 2002		015	H01Q003/00

INT-CL (IPC): H01 Q 3/00

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Draw De</a>
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☐ 2. Document ID: JP 2001094619 A

L33: Entry 2 of 4

File: DWPI

Apr 6, 2001

DERWENT-ACC-NO: 2001-340791

DERWENT-WEEK: 200136

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TITLE: Digital modulation transmitting apparatus for non-directional beacon samples audio signal that is input from external at fixed carrier frequency

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Draw De</a>
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☐ 3. Document ID: GB 1554718 A

L33: Entry 3 of 4

File: DWPI

Oct 24, 1979

DERWENT-ACC-NO: 1979-K1031B

DERWENT-WEEK: 197943

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TITLE: Radio navigation system with omnidirectional beacon - has automatic weather sensor to monitor ambient condition and trigger controller in event of limiting condition

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: DE 2819375 B

L33: Entry 4 of 4

File: DWPI

Oct 18, 1979

DERWENT-ACC-NO: 1979-K0416B

DERWENT-WEEK: 197943

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TITLE: Rotating audio radio beacon - uses cardioid and lobar fields to transmit weather and directional information to aircraft

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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described **direction**, distance and. possibly other cues are needed to ... externalized **audio beacon** over. headphones. Although this system ...  
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[20040113.qrp v03 n164.qrl.20040113 Date: Tue, 13 Jan 2004 19:03:07 ...](#)

... and a nudge in the right **direction** by Steve Weber, The mod to the older style ...  
[www.njqrp.org/palmserialsender](http://www.njqrp.org/palmserialsender) PSK31 **Audio beacon** Kit =96 Sold out! ...  
[www.ibiblio.org/pub/academic/agriculture/agronomy/ham/QRP/20040113.qrp.v03\\_n164](http://www.ibiblio.org/pub/academic/agriculture/agronomy/ham/QRP/20040113.qrp.v03_n164) - 154k - [Cached](#) - [Similar pages](#)

[20030331.qrp v02 n876.qrl.20030331 Date: Mon, 31 Mar 2003 19:03:08 ...](#)

... the Badger Smart badge / PSK31 **Audio Beacon** programming, and ... ARS Sojourner, is hot off the **virtual** press, free ... coast stations in the other **direction** but most ...  
[www.ibiblio.org/pub/academic/agriculture/agronomy/ham/QRP/20030331.qrp.v02\\_n876](http://www.ibiblio.org/pub/academic/agriculture/agronomy/ham/QRP/20030331.qrp.v02_n876) - 89k - Supplemental Result - [Cached](#) - [Similar pages](#)

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Figure 3 illustrates the concept of **virtual** auditory ... Orientation information - **direction** of north, azimuth of any. two points ...  
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... people manning the Badger Smart badge / PSK31 **Audio Beacon** programming, ... ZL6QH and west coast stations in the other **direction** but most contacts were ...  
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We will want to follow the net control's **direction**. ... I had an **audio beacon** outside of my tent like the ones we had at Radio Camp, but I had my recording ...  
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☐ 1. Document ID: US 20040030491 A1

Using default format because multiple data bases are involved.

L23: Entry 1 of 2

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030491

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030491 A1

TITLE: Method and arrangement for guiding a user along a target path

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hull, Richard	Bristol		GB	

US-CL-CURRENT: 701/207; 701/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Links	Drawings
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☐ 2. Document ID: US 2017908 A

L23: Entry 2 of 2

File: USOC

Oct 22, 1935

US-PAT-NO: 2017908

DOCUMENT-IDENTIFIER: US 2017908 A

TITLE: Direction finding apparatus

DATE-ISSUED: October 22, 1935

INVENTOR-NAME: AUGUST LEIB

US-CL-CURRENT: 342/428

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Links	Drawings
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Terms	Documents
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L23: Entry 2 of 2

File: USOC

Oct 22, 1935

US-PAT-NO: 2017908

DOCUMENT-IDENTIFIER: US 2017908 A

TITLE: Direction finding apparatus

DATE-ISSUED: October 22, 1935

US-CL-CURRENT: 342/428

DOCUMENT TEXT:

Oct. 22, 1935. A. LFIB 2,017,908 DIRECTION FINDING APPARATUS Filed Llay 16, 1930 2  
Shee,ts-Shoot I 14 c 16 dr /r w 4f INVENTOR, AUG iis. BY ATTORNEY

Oct. 22, 1935. A. LEIB 2,0179908 DIRECTION FINDING APPARATUS Filed May 16, 1930 2 S  
h e et s- S h e et 2 ----- <> ----- 0-----  
0 -----4----- tj -----  
----- INVENTOR AU US L B ATTORNEY

K-aiented Oct. 22, 1935 2to17 908 UNITED STATES. PAT-ENT OFFICE 2,017,908 D]  
IRECTION FLVDIING APPARATUS August Leib, Berlin, Germany, assignor to Telefunken  
GeseUschaft fiir Drahtlose Telegraphie m. b. H., Berlin, Germany,, a corporation of  
Germany APPIication May 16, 1930, Serial No. 452,838 l[n Germany July 26, 1929 7  
Claims. (Cl. 250-11) The invention is concerned with an automatic direction-finder  
apparatus in which an optical indicator device rotates in synchronism with the coil  
antenna or with the direction-finder coil of a goniometer, the position of the  
direction-finder element characterizing the direction or correct bearing, the  
latter being indicated by the flashing-up or extinction, meaning either minimum or  
maximum signal strength, according to the 10 circuit arrangements that have been  
chosen. According to the invention, a plurality of optical indicators such as glow-  
lamps, luminescent tubes, or the like, is mounted on a joint revolving indicator or  
signal device. These indicators 15 are energized in response to signals from a  
joint directional antenna system, direction-finder coil or goniometer search coil.  
Suitable resonance circuits or resonance relays are provided, each of such together  
with an indicator device controlled 20 thereby is coordinated to a definite radio  
beacon from which bearings are to be taken. If all of the indicators are readily  
distinguishable by a definite mark or characteristic stich as different colors,  
this constitutes an excellent and simple 25 means of simultaneously taking bearings  
from different separately located radio beacons, and in this manner it is directly  
feasible to obtain an idea respecting the position of the craft. Of course, it is  
also possible in this scheme to take 30 bearings selectively from certain radio  
beacons by disconnecting such indicators as are not de- sired. A better  
understanding of the invention will be had by a perusal of the following detailed  
de- 35 scription thereof in which reference is made to the figures i-n the annexed  
drawings, in which, Figure I shows an embodiemeni of the invention: Figure 1a shows  
diagrammatically the circuits 40 of the radiogoniometer, the search coil'and its  
connection with the receiver; Flgure 2 shows in detail a portion of the circuit of  
the arrangement of Figure 1; Figure 2a shows the signal indications derived 45 from  
the device of Mgure 1; Mgure 3 shows a modification of the circuit of Figure 2  
Figure 3a shows the signal indica-tioiis derived from the modified circuit of  
Flgure 3; while, 50 Flgures 4, 5, and 6 illustrate different modes of operating the

novel direction finder. Figures I and 1a show an embodiment of the apparatus by way of example. A is a weatherproof cross-frame aerial, the windings L of which 85 are connected in a well-known manner with two goniometer coils Li which in the instance here shown are built into the base casing H of the frame in a manner to safeguard them from the inclemencies of the weather. The search coil S of the goniometer in the present case is driven by 5 wind actuated vanes C; a scheme particularly suited for aircraft. It will be understood, of course, that also some other drive of suitable sort such as by an electric or gasoline motor may be used instead. The high frequency electrical 10 oscillations induced, in the search coil S of the goniometer are modulated by different low frequencies, most conveniently inside the audible range. Whenever bearings are to be taken from several beacons the signals from said beacons are 15 fed to the receiver E by way of slip rings F where they are reinforced or amplified and then converted, by an audion into low-frequency oscillations according to the particular modulating frequencies impressed on the carrier frequencies received. From the output circuit of the receiver, these oscillations are fed to a number of resonant relays either directly or, if necessary, after further amplification. Each one of these resonant relays is tuned to a distinct frequency, say for example; R is tuned to 500, G to 700 and B to 900 cycles per second. These resonant relays may be, for instance, along the same lines as the vibratory relays known in the prior art. In relays of this kind the elastic or 30 spring contacts in under normal condition, i. e., in the state of rest, are constantly associated with the detents or diaphragms k tuned to respond to a definite frequency. If these latter are excited by resonant electromagnetic oscillations of the 35 corresponding relay winding, the spring contacts i are temporarily thrown off with the result that the mean contact resistance between i and k becomes very high. These relay contacts are connected together by way of slip rings Q with 40 glow-lamps r, g, b, supplied from a battery M, said lamps being radially mounted upon a support O having the form of a disk, arm or bracket, and driven in synchronism with the goniometer coil by means of the bevel-wheel gearing N and 45 associated shafting as shown in Figure 1. If the electrical connections have been so established that the glow-lamps r, g, b, are in series with the relay contacts actuating and controlling them as shown in Figure 2, each of said 50 lamps will flash up whenever the corresponding relay is deenergized. In operation this results in a luminous picture as shown in Figure 2a. The light segments v, v, of the lamp trajectory are located in the neighborhood of the position as

0,017,908 indicating minimum signal strength. On the other segments u, u of the lamp path during rotation the lamp is dark upon reception, because the corresponding relay is then energized and its contact broken. When the radio beacon stops sending the segments u, u, will flash up also. When the beacon sends out Morse signals, the segments v, v, remain permanently light, the segments u, u, become extinguished, that is, are dark 10 when dashes and dots are transmitted, while they glow or become, light during spaces. Hence, the signal is reproduced negatively. But if the circuit diagram as illustrated in Figure 3 is chosen, where, the control contacts 15 are connected in parallel to the glow-lamps, in which case series resistances W are required, each of the lamps will flash up upon its relay being energized, while it goes out whenever the relay is de-energized. The luminous picture of 20 the lamp trajectory as shown in Figure 3a is in this case the reverse of what it was in the preceding circuit scheme. The segments v, v, for the minimum signal strength remain permanently dark. The segments u, u, are lit when energy 26 is being received, and the Morse-code signals are here reproduced in a positive manner. In order that the various lamps may be more easily distinguished it is suggested to choose different colors, for instance lamp r could be made 30 red, lamp g green, lamp b blue, and so on. The direction-finding position of the glow lamps may be read most suitably on the fixed direction-finder scale or dial p. While for the purpose of illustration I have 35 shown three, resonant circuits, three lamps and associated circuits it will be understood that more or less lamps may be used as conditions require without departing from the spirit of the invention. 40 It is readily possible to associate with one and

the same goniometer a plurality of receivers comprising each several resonant circuits or resonant relays. In other words, bearings can be taken simultaneously from a great number of radio beacons operating on different carrier waves and different modulation frequencies, and to each of these a separate optical indicator may be coordinated. Since it is an easy matter to connect and disconnect any desired number of indicators, the radio beacons can be received simultaneously or separately. Figure 4 illustrates a modification of my invention. Sr is a radio beacon operating on, for example, a wave of 1000 meters and a modulation frequency of 500 cycles per second. In this case let it be assumed that the carrier wave propagated by radio beacon Sg is also 1000 meters but that the modulator frequency is 700 cycles per second. In the direction-finder the receiver is tuned to a carrier wave of 1000 meters, the resonant relay R is tuned to 500 cycles per second and resonant relay G to 700 cycles per second. Hence, the red lamp r is coordinated to the radio beacon Sr and the green lamp g to the beacon Sg. Now, if the craft is located at point a on a line connecting Sr and Sg, then the corresponding signal strengths coincide for both radio beacons a fact which can be seen from the alignment of the segments v, v', and of 70, the two lamps r and g. But if the craft is located, say, at the point c, then the deviation from the directrix, as automatically indicated by the direction-finder apparatus, in that the segment v of the green lamp 7r has been shifted somewhat toward the right-hand side in relation to the segment v of the red lamp. Hence, the pilot knows that, in order to restore the craft to the steering line or directrix a Sr Sg, he must turn to the right-hand side. Hence, by the aid of the direction-finder outfit 5 furnished with an indicator or signal device as hereinbefore disclosed, in conjunction with two radio beacons, it is possible to keep the craft exactly on the line a Sg Sr without the use of a compass. The application of this invention to 10 marine vessels is especially desirable whenever such vessels are obliged to travel through comparatively narrow channels of water. If in addition to the two radio beacons Sr and Sg defining the steering line, there is a third transmitter Sb located laterally with respect to the line Sr Sg (see Fig. 5) then a third lamp, say the blue lamp b may be coordinated thereto in the direction-finder. Then, by the aid of the known distance between the said radio beacon Sb and the landing point x located say at an airport or harbor and the bearing angle a, indicated by indicator b it is easily possible to estimate the distance of the craft from the landing place or destination. In this manner it is possible to begin the landing of an aircraft at a definite point as for instance d where the angle cL has a certain and definite value, say, 45 degrees, and then to land at the point x where the light picture of the indicator b bears a quadrature relation with respect to the light picture of x and g. In order that the landing of aircraft may always be effected against the direction of the wind, it is advisable to mount a greater number of radio beacons in the vicinity of the landing place or airport, and of these three are to be in operation in accordance with the direction of the wind prevailing at any given time. An arrangement of this kind comprises four radio beacons S1, S2, S3, and S4 as indicated in Fig. 6. For instance, if the wind blows in the direction from S1 to S2, then the direction of landing is S1 to x. The radio beacons S1 and S2 and S3, respectively play the part of the radio beacons Sg, Sr, and Sb, respectively, in Fig. 5. The radio beacon S1 is coordinated, for example, to the red lamp of the aircraft direction-finder outfit and is modulated by 500 cycles per second; transmitter b2 to the green lamp 50 and modulated by 700 cycles per second, transmitter S3 to the blue lamp and modulated by 900 cycles per second. The radio beacon S4 is inoperative. Now, upon the direction of the wind changing into that from S4 to S3, then the radio beacon S2 is disconnected, S4 is connected, and modulated by 500 cycles per second, while the modulating frequencies of radio beacons S1 and S3 are now 700 and 900 cycles per second respectively. The change-over of the transmitters can be accomplished automatically in dependence upon some suitable device indicating the direction of the wind. I claim: 1. Apparatus for taking bearings from one or more radio beacons comprising a rotatable crossed loop direction finder aerial, a fixed graduated scale, a rotatable optical indicating means located within said scale comprising a plurality of optical indicators radially mounted upon a rotatable

support, driving means connecting said aerial and said optical indicators, means for controlling said indicators including a plurality of separate relay resonant circuits Interposed between said frame aerial and said indicators, each one of said resonant circuits and each of said indicators having contact elements combined with each relay so as to be controlled by the coordination of the frequencies of a radio beacon. 2. In radio direction finder receiving apparatus comprising a rotatable crossed frame aerial, a receiver having an output circuit combined with said aerial, said output circuit divided into a plurality of separate circuits, each of said separate circuits being responsive to a different frequency, a rotatable disk having angular graduations thereon, a plurality of different colored lamps mounted on said disk, each being arranged on a different radius and connected to different portions of said output circuit so as to correspond to a predetermined frequency, the output of said receiver having each separate circuit being tuned by a separate relay each having a separate diaphragm tuned to respond to a definite frequency and electrical contacts arranged with said colored lamps so as to present a light path of different colors on said scale by means of said lamps with a relatively narrow segment of light to indicate by a definite pattern the position of minimum signal strength received by said receiver. 3. A direction finder receiving device comprising a rotatable cross-looped frame aerial including a fixed graduated scale, a synchronously rotatable optical indicator located within said scale having a plurality of optical indicators radially mounted upon a rotatable support, means for illuminating said indicators including a plurality of separate low frequency resonant circuits having separate relays, each separate relay having a diaphragm and contact member for cooperating with said receiving device to operate the illuminating means of said optical indicators. 4. An aircraft radio receiving device for noting a plurality of landing bearings from a plurality of fixed radio beacons located in the vicinity of an airport comprising crossed loops having a weather proof covering, a rotatable search coil arranged with rotatable optical indicating means having a plurality of different identifying means and a corresponding number of low frequency resonant circuits having magnetic relays, each magnetic relay having a separate diaphragm and contacting elements arranged to cooperate with said receiving device to illuminate said optical indicating means so that a definite relation between each of the different indicators is established. 5. An aircraft radio receiving device for noting a plurality of landing bearings from a plurality of fixed radio beacons located in the vicinity of an airport, comprising crossed loops having a weather proof covering, a rotatable search coil arranged to be simultaneously rotatable with optical indicating scale having a plurality of different color-identifying means, each optical indicating means arranged to be rotatable in a concentric path of different radii and a corresponding number of low audio frequency resonant circuits having magnetic relays, each relay having a diaphragm and separate contacting elements for cooperating with said receiving device to illuminate said optical indicating means so that a definite relation between the different color indicators is established. 6. In radio direction finding apparatus, combination of a weatherproof crossed frame aerial having connected therewith a receiver having an output circuit, said output circuit having portions which are resonant to different signal frequencies, a rotatable disk, a plurality of different colored lamps mounted upon said disk, each of said colored lamps being mounted on a different radius and connected to a different portion of said output circuit and driven means for rotating a search coil simultaneously with said disk, identifying means arranged with the contacts of a plurality of separate relays, each relay having a separate diaphragm tuned to respond to a definite frequency, and electrical contacts arranged with said colored lamps so as to present a light path of different color on said disk by means of said lamps with a relatively narrow segment of light to indicate by a definite pattern the position of minimum signal strength received by said receiver. 7. In radio direction finder receiving apparatus, comprising a rotatable aerial, a receiver having an output circuit combined with said aerial, said output circuit

divided into a plurality of separate circuits, each of said separate circuits being responsive to a different frequency, 40 a rotatable member having graduations thereon, a plurality of different indicating means mounted upon said rotatable member, each different indicating means arranged on a different radius on said rotatable member and connected to different portions of output circuit so as to correspond to a predetermined frequency, the output of said receiver having each separate circuit tuned to be responsive to separate relay means so as to respond to a definite frequency, and 50 electrical means arranged with said different indicating means so as to present an optical path having different identifying means on said scale to indicate by a definite pattern the position of minimum signal strength received by said receiver. AUGUST T

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L23: Entry 2 of 2

File: USOC

Oct 22, 1935

DOCUMENT-IDENTIFIER: US 2017908 A

TITLE: Direction finding apparatus

## OCR Scanned Text (5):

2,017,908 3 tween said frame aerial and said indicators, each one of said resonant circuits and each of said indicators having contact elements combined with each relay so as to be controlled by the co-ordination of the frequencies of a radio beacon. 2. In radio direction finder receiving apparatus comprising a rotatable crossed frame aerial, a receiver having an output circuit combined with said - aerial, said output circuit divided into a plurality of separate circuits, each of said separate circuits being responsive to a different frequency, a rotatable disk having angular graduations thereon, a plurality of different colored lamps mounted on said disk, each being arranged on a different radius and connected to different portions of said output circuit so as to correspond to a predetermined frequency, the output of said receiver having each separate circuit being tuned by a separate relay each having a separate diaphragm tuned to respond to a definite frequency and electrical contacts arranged with said colored lamps so as to present a light path of different colors on said scale by means of said lamps with a relatively narrow segment of light to indicate by a definite pattern the position of minimum signal strength received by said receiver. 3. A direction finder receiving device comprising a rotatable cross-looped frame aerial including a fixed graduated scale, a synchronously rotatable optical indicator located within said scale having a plurality of optical indicators radially mounted upon a rotatable support, means for illuminating said indicators including a plurality of separate low frequency resonant circuits having separate relays, each separate relay having a diaphragm and contact member for cooperating with said receiving device to operate the illuminating means of said optical indicators. 4. An aircraft radio receiving device for noting a plurality of landing bearings from a plurality of fixed radio beacons located in the vicinity of an airport comprising crossed loops having a weather proof covering, a rotatable search coil arranged with rotatable optical indicating means having a plurality of different identifying means and a corresponding number of low frequency resonant circuits having magnetic relays, each magnetic relay having a separate diaphragm and contacting elements arranged to cooperate with said receiving device to illuminate said optical indicating means so that a definite relation between each of the different indicators is established. 5. An aircraft radio receiving device for noting a plurality of landing bearings from a plurality of fixed radio beacons located in the vicinity of an airport, comprising crossed loops having a weather proof covering, a rotatable search coil arranged to be simultaneously rotatable with optical indicating scale having a plurality of different color-identifying means, each optical indicating means arranged to be rotatable in a concentric path of different radii and a corresponding number of low audio frequency resonant circuits having magnetic relays, each relay having a diaphragm and separate contacting elements for cooperating with said receiving device to illuminate said optical indicating means so that a definite relation between the different color indicators is established. 6. In radio direction finding apparatus, combination of a weatherproof crossed frame aerial having connected therewith a receiver having an output circuit, said output circuit having portions which are resonant to different signal frequencies, a rotatable disk, a

plurality of different colored lamps mounted upon said disk, 20 each of said colored lamps being mounted on a different radius and connected to a different portion of said output circuit and driven means for rotating a search coil simultaneously with said disk, identifying means arranged with the Con-25 tacts of a plurality of separate relays, each relay having a separate diaphragm tuned to respond to a definite frequency, and electrical contacts arranged with said colored lamps so as to present a light path of different color on said disk by means of said lamps with a relatively narrow segment of light to indicate by a definite pattern the position of minimum signal strength received by said receiver. 7. In radio direction finder receiving apparatus comprising a rotatable aerial, a receiver having an output circuit combined with said aerial, said output circuit divided into a plurality of separate circuits, each of said separate circuits being responsive to a different frequency, 40 a rotatable member having graduations thereon, a plurality of different indicating means mounted upon said rotatable member, each different indicating means arranged on a different radius on said rotatable member and connected to different portions of output circuit so as to correspond to a predetermined frequency, the output of said receiver having each separate circuit tuned to be responsive to separate relay means so as to respond to a definite frequency, and 50 electrical means arranged with said different indicating means so as to present an optical path having different identifying means on said scale to indicate by a definite pattern the position of minimum signal strength received by said receiver. AUGUST T

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Search Results - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 20020099574 A1

Using default format because multiple data bases are involved.

L28: Entry 1 of 10

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020099574

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020099574 A1

TITLE: Method of electronically reserving a space for parking a vehicle

PUBLICATION-DATE: July 25, 2002

### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cahill, John J.	Pleasanton	CA	US	
Colby, Charles	Palo Alto	CA	US	
Parker, Marty	Paso Robles	CA	US	
Hinojo, Rudy	Paso Robles	CA	US	
Soper, Emmet H.	Palo Alto	CA	US	

US-CL-CURRENT: 705/5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Pub	Draw
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☐ 2. Document ID: US 6813608 B1

L28: Entry 2 of 10

File: USPT

Nov 2, 2004

US-PAT-NO: 6813608

DOCUMENT-IDENTIFIER: US 6813608 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: System and method for enhancing user experience in a wide-area facility having a distributed, bounded environment

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Pub	Draw
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☐ 3. Document ID: US 6611206 B2

L28: Entry 3 of 10

File: USPT

Aug 26, 2003

US-PAT-NO: 6611206

DOCUMENT-IDENTIFIER: US 6611206 B2



TITLE: Automatic system for monitoring independent person requiring occasional assistance

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Book	Drawings
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☐ 4. Document ID: US 6556950 B1

L28: Entry 4 of 10

File: USPT

Apr 29, 2003

US-PAT-NO: 6556950

DOCUMENT-IDENTIFIER: US 6556950 B1

TITLE: Diagnostic method and apparatus for use with enterprise control

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Book	Drawings
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☐ 5. Document ID: US 6108640 A

L28: Entry 5 of 10

File: USPT

Aug 22, 2000

US-PAT-NO: 6108640

DOCUMENT-IDENTIFIER: US 6108640 A

TITLE: System for calculating occasion dates and converting between different calendar systems, and intelligent agent for using same

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Book	Drawings
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☐ 6. Document ID: US 6073105 A

L28: Entry 6 of 10

File: USPT

Jun 6, 2000

US-PAT-NO: 6073105

DOCUMENT-IDENTIFIER: US 6073105 A

TITLE: Interactive personals online network method and apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Book	Drawings
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☐ 7. Document ID: US 5983200 A

L28: Entry 7 of 10

File: USPT

Nov 9, 1999

US-PAT-NO: 5983200

DOCUMENT-IDENTIFIER: US 5983200 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Intelligent agent for executing delegated tasks

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Book	Drawings
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☐ 8. Document ID: US 5913212 A

L28: Entry 8 of 10

File: USPT

Jun 15, 1999

US-PAT-NO: 5913212

DOCUMENT-IDENTIFIER: US 5913212 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Personal journal

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Book	Drawings
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☐ 9. Document ID: US 5845256 A

L28: Entry 9 of 10

File: USPT

Dec 1, 1998

US-PAT-NO: 5845256

DOCUMENT-IDENTIFIER: US 5845256 A

TITLE: Interactive self-service vending system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Book	Drawings
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☐ 10. Document ID: US 5424524 A

L28: Entry 10 of 10

File: USPT

Jun 13, 1995

US-PAT-NO: 5424524

DOCUMENT-IDENTIFIER: US 5424524 A

TITLE: Personal scanner/computer for displaying shopping lists and scanning barcodes to aid shoppers

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Book	Drawings
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Terms	Documents
L27 or L26	10

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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 6813608 B1

Using default format because multiple data bases are involved.

L29: Entry 1 of 6

File: USPT

Nov 2, 2004

US-PAT-NO: 6813608

DOCUMENT-IDENTIFIER: US 6813608 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: System and method for enhancing user experience in a wide-area facility having a distributed, bounded environment

DATE-ISSUED: November 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baranowski; Robert	San Diego	CA		

US-CL-CURRENT: 705/6; 705/5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Foot	Drawings
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☐ 2. Document ID: US 6611206 B2

L29: Entry 2 of 6

File: USPT

Aug 26, 2003

US-PAT-NO: 6611206

DOCUMENT-IDENTIFIER: US 6611206 B2

TITLE: Automatic system for monitoring independent person requiring occasional assistance

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Foot	Drawings
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☐ 3. Document ID: US 6556950 B1

L29: Entry 3 of 6

File: USPT

Apr 29, 2003

US-PAT-NO: 6556950

DOCUMENT-IDENTIFIER: US 6556950 B1

TITLE: Diagnostic method and apparatus for use with enterprise control

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 4. Document ID: US 5913212 A

L29: Entry 4 of 6

File: USPT

Jun 15, 1999

US-PAT-NO: 5913212

DOCUMENT-IDENTIFIER: US 5913212 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Personal journal

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 5. Document ID: US 5845256 A

L29: Entry 5 of 6

File: USPT

Dec 1, 1998

US-PAT-NO: 5845256

DOCUMENT-IDENTIFIER: US 5845256 A

TITLE: Interactive self-service vending system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 6. Document ID: US 5424524 A

L29: Entry 6 of 6

File: USPT

Jun 13, 1995

US-PAT-NO: 5424524

DOCUMENT-IDENTIFIER: US 5424524 A

TITLE: Personal scanner/computer for displaying shopping lists and scanning barcodes to aid shoppers

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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Terms	Documents
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L29: Entry 1 of 6

File: USPT

Nov 2, 2004

DOCUMENT-IDENTIFIER: US 6813608 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: System and method for enhancing user experience in a wide-area facility having a distributed, bounded environment

Application Filing Date (1):

20000314

Brief Summary Text (9):

Consequently, there is a need in the art for a method and system of providing enhanced customer service in a wide-area facility. Specifically, there is a need for better systems and methods of providing directional and product information to customers in a wide-area facility, preventing long lines for services within the wide-area facility and facilitating communication between separated members of a group making use of the wide-area facility.

Brief Summary Text (11):

It is an object of the present invention to address the above-described problems and others. Specifically, it is an object of the present invention to provide a method and system of providing enhanced customer service in a wide-area facility. More specifically, some of the objects of the present invention include providing a method and system of better providing directional and product information to customers in a wide-area facility, preventing long lines for services within the wide-area facility and facilitating communication between separated members of a group making use of the wide-area facility.

Detailed Description Text (5):

As shown in FIG. 1, the primary interaction that a customer has with the system is through a portable device (100). As will be explained in detail below, this device (100) can allow a customer to determine his or her own location and obtain directions to an attraction, facility or product. The device (100) can also be used to communicate messages, either audio or visual, with others of the customer's group. The device (100) can also be used to manage the customer's schedule within the wide-area facility to avoid long lines. The device (100) may also allow the customer to make purchases or view advertisements, again, to avoid long lines at point-of-sale equipment.

Detailed Description Text (48):

Since voice packets will be going from base to base in both directions, some knowledge of the path taken can be used to minimize system overhead. For example, referring to FIG. 1, if the voice packets are transmitted from base 101, those packets will be received by both base (102) and base (106). If the portable device of the intended recipient is in communication with base (103), base (102) should retransmit the voice packets to base (103) while base (106) should ignore the incoming voice packets. The best transmission paths are periodically updated to reflect changes in device location or system characteristics.

Detailed Description Text (56):

As mentioned above, the system of the present invention can be used to enhance customer service and experience in a wide variety of different types of wide-area

facilities. Examples in the area of commercial sales include large stores, wholesale outlets, and malls. Merchants in this market face the problem of getting customers attention as they are passing by and giving shoppers exactly what they need without overstaffing the store. The system of the present invention gives customers an interactive map to find the stores they are looking for. Using the messaging features of the system, a customer can search the mall or store database for a particular item, then be given directions on how to find and purchase the item.

Detailed Description Text (84):

The physical identification (608) could also include magnetic strip encoded to identify the members of a group. The magnetic strip could be, as above, placed on a card, wristband, pendant or the like and inserted in a magnetic strip reader (607) at the preferential entrance (602) to the attraction (600). The physical identification (608) could also be a proximity card or device which is sensed when placed in proximity to a sensor (607) at the preferential entrance (602). Any device capable of identifying the members of a group at a preferential entrance (602) so as to control the number of persons admitted in accordance with existing reservations and fees paid can be used under the principles of the present invention. However, some identification devices may have unobvious advantages over others.

Current US Original Classification (1):

705/6

Current US Cross Reference Classification (1):

705/5

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L29: Entry 2 of 6

File: USPT

Aug 26, 2003

DOCUMENT-IDENTIFIER: US 6611206 B2

TITLE: Automatic system for monitoring independent person requiring occasional assistance

Application Filing Date (1):20010315Brief Summary Text (15):

In another application area, machines automatically detect an occupant's presence or specific features of the occupant for purposes of machine-authorization and authentication or convenience. To that end, some prior art systems employ biometric sensing, proximity detectors, radio frequency identification tags, or other devices.

Detailed Description Text (5):

Referring now to FIG. 3, a functional diagram of an event driven architecture that may be used to monitor an occupied zone separates the object illustrated by the single "black box" of classifier 510, into multiple objects whose outputs are combined to classify alarm conditions. Audio input 245, video input 255, and other user interface devices (not shown) generate signals that are applied to respective classifiers 210, 240. The audio input 245, which may be received by a microphone (not shown separately) or a directional audio detector (not shown separately) which indicates both the sound and its direction, or any other suitable audio transducer, may be applied to an audio classifier 210. The latter data form a real-time signal, which the audio classifier 210 classifies by suitable digital or analog means or a combination thereof. The audio classifier 210 then generates a current state information signal which it applies to both a mental state/health status classifier 290 and an event/class processor 207.

Current US Cross Reference Classification (8):705/2



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L29: Entry 4 of 6

File: USPT

Jun 15, 1999

DOCUMENT-IDENTIFIER: US 5913212 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Personal journal

Application Filing Date (1):19970613DATE ISSUED (1):19990615Brief Summary Text (16):

The system may include a variety of ways for users to identify other users for inclusion in the personal journal. In one embodiment, the personals system includes a variety of profile data regarding each of the users of the system. The profile data may include both characteristic data, which describes the user who wishes to identify other users, and criteria data, which describes the criteria that the user would like to find in other users of the system. Using this data, the system of the invention may provide profile searching capabilities to allow a user to identify other users having certain characteristics. The system of the invention may also provide a bi-directional matching function which compares a user's characteristic and criteria data to the characteristic and criteria data of other users.

Detailed Description Text (12):

The ATS machines 48.sub.1 -48.sub.K are local in the sense of being located in relatively close proximity to the vendor and the ATS machines 44.sub.1 -44.sub.N are remote in the sense of, generally, being located a significant distance from the vendor. Each of the remote ATS machines 44.sub.1 -44.sub.N is located proximal to one or more of the vendor's clients, thereby enabling responses to personals to be made with less expensive telephone calls. In the illustrative embodiment, there are on the order of thirteen local ATS machines 48.sub.1 -48.sub.K and on the order of eighty remote ATS machines 44.sub.1 -44.sub.N. However, it will be appreciated by those of ordinary skill in the art that the number of ATS machines, both local and remote, is a function of the number of clients serviced by the vendor, their geographic locations and the capability of each ATS machine.

Detailed Description Text (32):

A user can request a search of the database for other users based on characteristic and criteria data. In another embodiment, the system can periodically examine the database to search for users for which there is a bi-directional match of characteristic and criteria data. A search string is formed to match the user's criteria data with the characteristic data of other users and the user's characteristic data with the criteria data of the other users. After forming the search string, the database is searched using the string to obtain a list of matches. The search results in the form of matches, may then be provided to the user. Searching and matching functions which may be provided with the PON system are described in greater detail in pending U.S. patent application Ser. No. 08/874,564 entitled "Method and Apparatus for Matching Registered Profiles" which is assigned to the assignee of the present invention, filed on even date herewith, and incorporated herein by reference.

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L29: Entry 5 of 6

File: USPT

Dec 1, 1998

DOCUMENT-IDENTIFIER: US 5845256 A

TITLE: Interactive self-service vending system

Application Filing Date (1):19971117DATE ISSUED (1):19981201Detailed Description Text (12):

The features of the software and the operation of a stand-alone terminal 10 of the invention are shown and illustrated in the flow chart of FIGS. 4A-4J. Before discussing the flow-chart, it is to be noted that a series of messages are displayed on display screen 20. As is well known in the art, such messages are first assembled in an image RAM or buffer under the direction of the software from fixed disk drive 40, removable disk drive 36 and/or video disk player 46 and are then transferred through video mixer 64 to the video display 20. The software establishes an interactive dialogue between the terminal and the customer by displaying screens on display 20 directing questions or instructions to the customer. The customer, in turn, responds by touching an appropriate spot on touch screen 21, inputting information through keyboard 16 or signing pad 18, or otherwise following the directions displayed on the screen. This aspect of the software and the hardware means used in implementing it and the customers responses are referred to herein as "interactive means". However, "the terminal" or "the station" will be understood as referring to the source of functions originating in the software for generating a message displayed on screen 20 or any other software functions.

Detailed Description Text (13):

Referring to FIG. 4A, upon connecting the terminal to a supply of electrical power at 100 ("power up"), a determination is made at 102 as to whether a customer is present. In one embodiment, proximity detector 76 senses the customer as he or she approaches terminal 10. In a second embodiment, display screen 20 displays a sales message ("Attraction Screen 1") instructing the customer to touch touch screen 21, if he or she is interested in an insurance policy being vended by the system. If a customer's presence is not sensed by proximity detector 76 or if, for the second embodiment, the customer does not touch touch screen 21, a "NO" output causes at 104 display of "Attraction Screen 1" on screen 20. If, however, a customer has been sensed by proximity detector 76, or the customer has touched touch screen 21, a "YES" output causes the terminal to clear all buffers at 106.

Current US Original Classification (1):705/4



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L29: Entry 6 of 6

File: USPT

Jun 13, 1995

DOCUMENT-IDENTIFIER: US 5424524 A

TITLE: Personal scanner/computer for displaying shopping lists and scanning barcodes to aid shoppers

Application Filing Date (1):19930624DATE ISSUED (1):19950613Detailed Description Text (21):

Query 86 represents the process of scanning the keyboard and waiting for the scan button 20 in FIG. 1 to be pushed. When it is pushed, the Personal Scanner.TM. assumes that the bar code of the item to be placed in the basket has been placed within range of the scanning window 18, and scanning proceeds in a known fashion. In alternative embodiments, the button 20 can be eliminated and a scanner with proximity sensing capability may be substituted. Such scanners are commercially available and sense when they have been placed adjacent to a bar code. Such scanners automatically scan and decode any bar code placed within view. The process of scanning the bar code and converting the resulting pattern of signals from the bar code scanning apparatus to ASCII (or EBCDIC etc.) characters is well known in the art. Basically, the bar code scanner 46 converts the bars and spaces of the bar code pattern to a signal waveform that makes transitions between two digital levels in a predetermined unique pattern for each unique bar code. This unique bar code pattern waveform is transmitted to microprocessor 40 via bus 47 where the waveform is applied to a decoder which converts the pattern to a series of ASCII characters, and usually calculates a checksum to check the validity of the decoded characters and releases the decoded characters after verifying a correct checksum. Equipment to do this is commercially available from several sources including Densei Nippon Electric Industries of Tokyo, Japan. Generally, bar code scanners come in three classes: lasers which are expensive and consume large amounts of power, LED devices which must be physically moved past a bar code and which consume large amounts of power and CCD imaging devices which image the entire bar code and then electronically scan it and convert it to the unique waveform representing the bar code. It is the CCD class of bar code scanners which work best for the Personal Scanner.TM. device application because they need not be in contact with the bar code and they consume less power than many other types of bar code scanners. Densei makes CCD type bar code scanners such as the Model BCH5532 Bar Code Reader. The details of the Densei line of CCD bar code scanners in general, and the Model BCH5532 scanner in particular are hereby incorporated by reference. Other types of bar code scanners will also work such as the bar code scanner disclosed in U.S. Pat. No. 4,204,636 to Hayman, which is hereby incorporated by reference. After a bar code has been successfully scanned and decoded, the microprocessor 40 sends a suitable waveform to the piezoelectric sounding device 89 in FIG. 3 to give the user an audible tone that the bar code has been successfully scanned.

Detailed Description Text (30):

One of the possible benefits of use of the Personal Scanner.TM. device is that it may make it possible for grocery stores to reduce their headcount in using fewer

checkout clerks since the checkout line will move much faster. Obviously because the Personal Scanner.TM. device can electronically transfer the information therein to the store register much faster than a checkout clerk can scan each item in a shopper's basket, the checkout lines should move much faster. One concern grocery stores will have of course is in the area of security. To prevent shoppers from putting things in their carts which have not been scanned and then leaving the store with them, in one alternative embodiment, a security strip deactivation system is employed. In the preferred embodiment, the security strip is a magnetic strip upon which other information such as the unit price etc. may be printed. These magnetic strips, when not deactivated and passed through an alternating current magnetic field, cause intermodulation products which can be detected and which set off alarms. These magnetic strips can be deactivated so that the intermodulation products are not created by exposing them to a D.C. or permanent magnet field. Accordingly, in embodiments in which the security strip deactivation system is used, two or more permanent magnets 120 and 122 are mounted on the end of the Personal Scanner.TM. device adjacent to the scanning window 18 as shown in FIGS. 1 and 2. These magnets are permanent magnets and each has a north and south pole. The magnets 120 and 122 are mounted such that their north and south poles face in opposite directions so as to strengthen the magnetic field that they create in front of the scanning window 18. In other words, if permanent magnet 120 has its north pole facing inward toward the casing of the Personal Scanner.TM. device, then permanent magnet 122 will be mounted to have its south pole facing inward toward the casing. Such a system is disclosed in U.S. Pat. No. 5,187,354, which is hereby incorporated by reference. For embodiments using memory which is sensitive to magnetic fields such that data might be lost such as hard disks or floppy disks used in palmtop computers adapted to the Personal Scanner.TM. device functions, it is preferred to provide some magnetic shielding between the magnets 120 and 122 and any memory which is magnetically sensitive. Such shielding can be some metal which prevents magnetic field lines from penetrating therethrough.

Current US Original Classification (1):  
705/8

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Select?	Database	Query	PluralOp	Thesaurus	Set Name
<input checked="" type="checkbox"/>	USPT	6865547.pn.	YES	ORASSIGNEE	L1
<input checked="" type="checkbox"/>	USPT	6314406.PN.	YES	ORASSIGNEE	L2
<input checked="" type="checkbox"/>	USPT	L2 AND (PROXIMS WITH SENS\$)	YES	ORASSIGNEE	L3
<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	(audio adj beacon) same (ship or aircraft or airplane)	YES	ORASSIGNEE	L4
<input checked="" type="checkbox"/>	PGPB,USPT,USOC	virtual\$ near3 beacon\$	YES	ORASSIGNEE	L5
<input checked="" type="checkbox"/>	PGPB,USPT,USOC	L5 and (ship or aircraft or airplane)	YES	ORASSIGNEE	L6
<input checked="" type="checkbox"/>	PGPB,USPT,USOC	L6 and (audio with beacon\$)	YES	ORASSIGNEE	L7
<input checked="" type="checkbox"/>	PGPB,USPT,USOC	L6 and (audio\$ with beacon\$)	YES	ORASSIGNEE	L8
<input checked="" type="checkbox"/>	PGPB,USPT,USOC	L5 and (ship or aircraft or airplane) and audio\$	YES	ORASSIGNEE	L9
<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	virtual\$ with beacon\$	YES	ORASSIGNEE	L10
<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	L10 and path\$ and guid\$	YES	ORASSIGNEE	L11
<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	L11 and (audio\$ with beacon\$)	YES	ORASSIGNEE	L12
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<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	L14 and (audio\$ with beacon\$)	YES	ORASSIGNEE	L15
<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	('6275164'  '20040030491'  '2107155')[URPN]	YES	ORASSIGNEE	L16
<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	('6275164'  '20040030491'  '2107155')[PN]	YES	ORASSIGNEE	L17
<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	(5389935   5742666   5555286   3176229   5367306   4888595   6052052   5974031   5024447   4394777   5914675   4630289   5515061   5563612   5731785   5157405   5515419   5742233   3613085   3790948   5726663)![PN]	YES	ORASSIGNEE	L18
<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	L18 or L16	YES	ORASSIGNEE	L19
<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	L19 and (audio\$ with beacon\$)	YES	ORASSIGNEE	L20
<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	L19 and (audio\$ same beacon\$)	YES	ORASSIGNEE	L21
<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	L21 and ((virtual\$ or imagin\$) same beacon\$)	YES	ORASSIGNEE	L22
<input checked="" type="checkbox"/>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	(audio\$ with beacon\$ with arrang\$ with path) same direction\$	YES	ORASSIGNEE	L23
<input checked="" type="checkbox"/>	PGPB,USPT,USOC	705/? ccls.	YES	ORASSIGNEE	L24
<input checked="" type="checkbox"/>	PGPB,USPT,USOC	L24 and (proximity near3 sens\$)	YES	ORASSIGNEE	L25
<input checked="" type="checkbox"/>	PGPB,USPT,USOC	L25 and @ad<=20020806	YES	ORASSIGNEE	L26
<input checked="" type="checkbox"/>	PGPB,USPT,USOC	L25 and @pd<=20020806	YES	ORASSIGNEE	L27
<input checked="" type="checkbox"/>	PGPB,USPT,USOC	L27 or L26	YES	ORASSIGNEE	L28
<input checked="" type="checkbox"/>	PGPB,USPT,USOC	L28 and direction\$	YES	ORASSIGNEE	L29

Please enter the case name:

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Clear All

Reset

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**The Contents of Case 10635869b**

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Qnum	Query	DB Name	Thesaurus	Operator	Plural
Q1	6539393.pn.	USPT	ASSIGNEE	OR	YES
Q2	Q1 and navigat\$ and locat\$	USPT	ASSIGNEE	OR	YES
Q3	20020165731	PGPB	ASSIGNEE	OR	YES
Q4	20020174021	PGPB,USPT	ASSIGNEE	OR	YES

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Case Operation

Run Case



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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 5563612 A

Using default format because multiple data bases are involved.

L21: Entry 1 of 4

File: USPT

Oct 8, 1996

US-PAT-NO: 5563612

DOCUMENT-IDENTIFIER: US 5563612 A

TITLE: Frequency multiplier circuitry for radio beacons

DATE-ISSUED: October 8, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Flood; John F.	Plantation	FL	33317	
Havens; Richard C.	Plantation	FL	33324	

US-CL-CURRENT: 342/385; 331/53

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	Book	Draw	De
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☐ 2. Document ID: US 5515061 A

L21: Entry 2 of 4

File: USPT

May 7, 1996

US-PAT-NO: 5515061

DOCUMENT-IDENTIFIER: US 5515061 A

TITLE: System for broadcasting marker beacon signals and processing responses from seeking entities

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	Book	Draw	De
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☐ 3. Document ID: US 4630289 A

L21: Entry 3 of 4

File: USPT

Dec 16, 1986

US-PAT-NO: 4630289

DOCUMENT-IDENTIFIER: US 4630289 A

TITLE: Emergency locator transmitter incident time correlator

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	Book	Draw	De
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☐ 4. Document ID: US 4394777 A

L21: Entry 4 of 4

File: USPT

Jul 19, 1983

US-PAT-NO: 4394777

DOCUMENT-IDENTIFIER: US 4394777 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method of and system for classifying emergency locating transmitters and emergency positions indicating radio beacons

Full	Title	Citation	Front	Revision	Classification	Date	Reference				Claims	Index	Drawings
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L19 and (audio\$ same beacon\$)	4

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☐ 1. Document ID: US 20040030491 A1

Using default format because multiple data bases are involved.

L17: Entry 1 of 11

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030491

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030491 A1

TITLE: Method and arrangement for guiding a user along a target path

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hull, Richard	Bristol		GB	

US-CL-CURRENT: 701/207; 701/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIG	Drawings
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☐ 2. Document ID: US 6275164 B1

L17: Entry 2 of 11

File: USPT

Aug 14, 2001

US-PAT-NO: 6275164

DOCUMENT-IDENTIFIER: US 6275164 B1

TITLE: Emergency locator system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIG	Drawings
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☐ 3. Document ID: US 2107155 A

L17: Entry 3 of 11

File: USPT

Feb 1, 1938

US-PAT-NO: 2107155

DOCUMENT-IDENTIFIER: US 2107155 A

TITLE: Radio directional indicator [TEXT AVAILABLE IN USOCR DATABASE]

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIG	Drawings
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☐ 4. Document ID: US 20040132467 A1, EP 1388973 A1, GB 2391626 A, GB 2391661 A, GB 2391662 A, GB 2391663 A, GB 2391759 A, GB 2391760 A, GB 2391761 A, GB 2391773 A, GB 2391782 A, US 20040030491 A1, US 20040030494 A1, US 20040030832 A1

L17: Entry 4 of 11

File: DWPI

Jul 8, 2004

DERWENT-ACC-NO: 2004-182046

DERWENT-WEEK: 200445

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Providing information about a real-world space using virtual markers deposited in respect of users of space, involves using data about current strength of stored markers in service system to provide information relevant to use of space

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Footnote	Drawings
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☐ 5. Document ID: US 6275164 B1

L17: Entry 5 of 11

File: DWPI

Aug 14, 2001

DERWENT-ACC-NO: 2001-579152

DERWENT-WEEK: 200165

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Emergency locator beacon device for hikers, has transmitter to transmit digital version of unit identification and voice unit identification message

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Footnote	Drawings
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☐ 6. Document ID: RU 2107155 C1

L17: Entry 6 of 11

File: DWPI

Mar 20, 1998

DERWENT-ACC-NO: 1998-519096

DERWENT-WEEK: 199844

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Oil recovery by water injection below seam fracturing pressure - with production stopped until seam pressure rise to set level, then started with drawdown pressure control ensuring set level of production

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Footnote	Drawings
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☐ 7. Document ID: EP 654617 A1, ES 2107155 T3, FR 2712646 A1, EP 654617 B1, DE 69406088 E

L17: Entry 7 of 11

File: DWPI

May 24, 1995

DERWENT-ACC-NO: 1995-187305

DERWENT-WEEK: 199801

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Elastic articulation with controlled axial rigidity, between railway wagon bogie chassis and axle box - comprises concentric internal and external tubular armatures with elastic material, adhered between annular surfaces, pre-stressed during assembly

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 8. Document ID: US 5365554 A, CA 2107155 A

L17: Entry 8 of 11

File: DWPI

Nov 15, 1994

DERWENT-ACC-NO: 1994-366422

DERWENT-WEEK: 199445

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Instrumentation probe for on-line measurement - within fluid duct with propulsion by fluid flow

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 9. Document ID: GB 2107155 A, DE 3236874 A, DE 3236874 C, FR 2515458 A, GB 2107155 B, JP 58075980 A, KR 8801929 B, US 4393397 A

L17: Entry 9 of 11

File: DWPI

Apr 20, 1983

DERWENT-ACC-NO: 1983-F2065K

DERWENT-WEEK: 198316

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Television ghost signal detector with colour burst phase delay control - has tracking circuit responsive to delayed signal component and coincidence circuit for detecting training signal at output of delay-line

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 10. Document ID: BE 771981 A, DE 2143572 A, DE 2143572 B, FR 2107155 A, GB 1342366 A, NL 7112096 A

L17: Entry 10 of 11

File: DWPI

DERWENT-ACC-NO: 1972-16283T

DERWENT-WEEK: 197210

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Wire coating - by passing heated wire through bath of thermosetting resin and removing excess resin by passing coated wire through

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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Terms	Documents
(6275164 '20040030491 '2107155')[PN]	11

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☐ 1. Document ID: US 20040030491 A1

Using default format because multiple data bases are involved.

L17: Entry 1 of 11

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030491

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030491 A1

TITLE: Method and arrangement for guiding a user along a target path

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hull, Richard	Bristol		GB	

US-CL-CURRENT: 701/207; 701/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PubC	Draw De
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☐ 2. Document ID: US 6275164 B1

L17: Entry 2 of 11

File: USPT

Aug 14, 2001

US-PAT-NO: 6275164

DOCUMENT-IDENTIFIER: US 6275164 B1

TITLE: Emergency locator system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PubC	Draw De
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☐ 3. Document ID: US 2107155 A

L17: Entry 3 of 11

File: USPT

Feb 1, 1938

US-PAT-NO: 2107155

DOCUMENT-IDENTIFIER: US 2107155 A

TITLE: Radio directional indicator [TEXT AVAILABLE IN USOCR DATABASE]

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PubC	Draw De
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☐ 4. Document ID: US 20040132467 A1, EP 1388973 A1, GB 2391626 A, GB 2391661 A, GB 2391662 A, GB 2391663 A, GB 2391759 A, GB 2391760 A, GB 2391761 A, GB 2391773 A, GB 2391782 A, US 20040030491 A1, US 20040030494 A1, US 20040030832 A1

L17: Entry 4 of 11

File: DWPI

Jul 8, 2004

DERWENT-ACC-NO: 2004-182046

DERWENT-WEEK: 200445

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TITLE: Providing information about a real-world space using virtual markers deposited in respect of users of space, involves using data about current strength of stored markers in service system to provide information relevant to use of space

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Summary	Claims	Index	Drawings
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☐ 5. Document ID: US 6275164 B1

L17: Entry 5 of 11

File: DWPI

Aug 14, 2001

DERWENT-ACC-NO: 2001-579152

DERWENT-WEEK: 200165

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Emergency locator beacon device for hikers, has transmitter to transmit digital version of unit identification and voice unit identification message

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Summary	Claims	Index	Drawings
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☐ 6. Document ID: RU2107155 C1

L17: Entry 6 of 11

File: DWPI

Mar 20, 1998

DERWENT-ACC-NO: 1998-519096

DERWENT-WEEK: 199844

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TITLE: Oil recovery by water injection below seam fracturing pressure - with production stopped until seam pressure rise to set level, then started with drawdown pressure control ensuring set level of production

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Summary	Claims	Index	Drawings
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☐ 7. Document ID: EP 654617 A1, ES 2107155 T3, FR 2712646 A1, EP 654617 B1, DE 69406088 E

L17: Entry 7 of 11

File: DWPI

May 24, 1995

DERWENT-ACC-NO: 1995-187305

DERWENT-WEEK: 199801

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TITLE: Elastic articulation with controlled axial rigidity, between railway wagon bogie chassis and axle box - comprises concentric internal and external tubular armatures with elastic material, adhered between annular surfaces, pre-stressed during assembly

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	BookC	Drawings
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☐ 8. Document ID: US 5365554 A, CA 2107155 A

L17: Entry 8 of 11

File: DWPI

Nov 15, 1994

DERWENT-ACC-NO: 1994-366422

DERWENT-WEEK: 199445

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TITLE: Instrumentation probe for on-line measurement - within fluid duct with propulsion by fluid flow

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	BookC	Drawings
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☐ 9. Document ID: GB 2107155 A, DE 3236874 A, DE 3236874 C, FR 2515458 A, GB 2107155 B, JP 58075980 A, KR 8801929 B, US 4393397 A

L17: Entry 9 of 11

File: DWPI

Apr 20, 1983

DERWENT-ACC-NO: 1983-F2065K

DERWENT-WEEK: 198316

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TITLE: Television ghost signal detector with colour burst phase delay control - has tracking circuit responsive to delayed signal component and coincidence circuit for detecting training signal at output of delay-line

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	BookC	Drawings
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☐ 10. Document ID: BE 771981 A, DE 2143572 A, DE 2143572 B, FR 2107155 A, GB 1342366 A, NL 7112096 A

L17: Entry 10 of 11

File: DWPI

DERWENT-ACC-NO: 1972-16283T

DERWENT-WEEK: 197210

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TITLE: Wire coating - by passing heated wire through bath of thermosetting resin and removing excess resin by passing coated wire through

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	BookC	Drawings
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
('6275164' '20040030491' '2107155')[PN]	11

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☐ 11. Document ID: US 2107155 A

Using default format because multiple data bases are involved.

L17: Entry 11 of 11

File: USOC

Feb 1, 1938

US-PAT-NO: 2107155

DOCUMENT-IDENTIFIER: US 2107155 A

TITLE: Radio directional indicator

DATE-ISSUED: February 1, 1938

INVENTOR-NAME: KLEINKAUF JAMES D; MARTIN DE LOSS K

US-CL-CURRENT: 342/407

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	Form	Drawings
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Terms	Documents
('6275164'  '20040030491'  '2107155')[PN]	11

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 6314406 B1

L3: Entry 1 of 1

File: USPT

Nov 6, 2001

US-PAT-NO: 6314406

DOCUMENT-IDENTIFIER: US 6314406 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Customer information network

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Publ	Drawings
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Terms	Documents
L2 AND (PROXIMS WITH SENS\$)	1

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 5299227 A

Using default format because multiple data bases are involved.

L9: Entry 1 of 1

File: USPT

Mar 29, 1994

US-PAT-NO: 5299227

DOCUMENT-IDENTIFIER: US 5299227 A

TITLE: Individual beacon identification system

DATE-ISSUED: March 29, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rose; David	Bowie	MD		

US-CL-CURRENT: 342/45; 340/5.81, 340/825.49

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	Publ	Original
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Terms	Documents
L5 and (ship or aircraft or airplane) and audio\$	1

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20050120200 A1

Using default format because multiple data bases are involved.

L12: Entry 1 of 2

File: PGPB

Jun 2, 2005

PGPUB-DOCUMENT-NUMBER: 20050120200

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050120200 A1

TITLE: Limiting access to information corresponding to a context

PUBLICATION-DATE: June 2, 2005

### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brignone, Cyril	Mountain View	CA	US	
Pradhan, Salil	Santa Clara	CA	US	

US-CL-CURRENT: [713/154](#); [709/203](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PubC	Drawings
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☐ 2. Document ID: US 20040030491 A1

L12: Entry 2 of 2

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030491

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030491 A1

TITLE: Method and arrangement for guiding a user along a target path

PUBLICATION-DATE: February 12, 2004

### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hull, Richard	Bristol		GB	

US-CL-CURRENT: [701/207](#); [701/200](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PubC	Drawings
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Terms	Documents
L11 and (audio\$ with beacon\$)	2

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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20050120200 A1

Using default format because multiple data bases are involved.

L15: Entry 1 of 4

File: PGPB

Jun 2, 2005

PGPUB-DOCUMENT-NUMBER: 20050120200

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050120200 A1

TITLE: Limiting access to information corresponding to a context

PUBLICATION-DATE: June 2, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brignone, Cyril	Mountain View	CA	US	
Pradhan, Salil	Santa Clara	CA	US	

US-CL-CURRENT: [713/154](#); [709/203](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Footnote	Drawings
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☐ 2. Document ID: US 20040030491 A1

L15: Entry 2 of 4

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030491

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030491 A1

TITLE: Method and arrangement for guiding a user along a target path

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hull, Richard	Bristol		GB	

US-CL-CURRENT: [701/207](#); [701/200](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Footnote	Drawings
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☐ 3. Document ID: US 6275164 B1

US-PAT-NO: 6275164

DOCUMENT-IDENTIFIER: US 6275164 B1

TITLE: Emergency locator system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 4. Document ID: US 2107155 A

L15: Entry 4 of 4

File: USOC

Feb 1, 1938

US-PAT-NO: 2107155

DOCUMENT-IDENTIFIER: US 2107155 A

TITLE: Radio directional indicator

DATE-ISSUED: February 1, 1938

INVENTOR-NAME: KLEINKAUF JAMES D; MARTIN DE LOSS K

US-CL-CURRENT: 342/407

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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Terms	Documents
L14 and (audio\$ with beacon\$)	4

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